Aeronautics Educator Guide			
1997 Mathematics			
Content Standards			
California Mathematics			
Grade 2			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	CA	MA.2.MG.1.1	Measure the length of objects by iterating (repeating) a nonstandard or standard unit.
Air Engines (12-16)	CA	MA.2.MG.1.3	Measure the length of an object to the nearest inch and/or centimeter.
Flight: Interdisciplinary Learning Activities (76-79)	CA	MA.2.MG.1.5	Determine the duration of intervals of time in hours (e.g., 11:00 a.m. to 4:00 p.m.).
Plan to Fly There (97-106)	CA	MA.2.MG.1.5	Determine the duration of intervals of time in hours (e.g., 11:00 a.m. to 4:00 p.m.).
We Can Fly, You and I: Interdisciplinary Learning (107-108)	CA	MA.2.MG.1.5	Determine the duration of intervals of time in hours (e.g., 11:00 a.m. to 4:00 p.m.).
Dunked Napkin (17-22)	CA	MA.2.SDAP.1.4	Ask and answer simple questions related to data representations.
Paper Bag Mask (23-28)	CA	MA.2.MG.1.1	Measure the length of objects by iterating (repeating) a nonstandard or standard unit.
Paper Bag Mask (23-28)	CA	MA.2.MG.1.3	Measure the length of an object to the nearest inch and/or centimeter.
Wind in Your Socks) (29-35)	CA	MA.2.MG.1.1	Measure the length of objects by iterating (repeating) a nonstandard or standard unit.
Wind in Your Socks) (29-35)	CA	MA.2.MG.1.3	Measure the length of an object to the nearest inch and/or centimeter.
Wind in Your Socks) (29-35)	CA	MA.2.MR.2.1	Defend the reasoning used and justify the procedures selected.
Right Flight (52-59)	CA	MA.2.MR.1.1	Determine the approach, materials, and strategies to be used.
Delta Wing Glider (60-68)	CA	MA.2.MR.1.1	Determine the approach, materials, and strategies to be used.
Aeronautics Educator Guide			
1997 Mathematics			
Content Standards			
California Mathematics			
Grade 3			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	CA	MA.3.MG.1.1	Choose the appropriate tools and units (metric and U.S.) and estimate and measure the length, liquid volume, and weight/mass of given objects.
Air Engines (12-16)	CA	MA.3.MR.2.3	Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.

Rotor Motor (69-75)	CA	MA.3.SDAP.1.3	Summarize and display the results of probability experiments in a clear and organized way (e.g., use a bar graph or a line plot).
Flight: Interdisciplinary Learning Activities (76-79)	CA	MA.3.NS.1.1	Count, read, and write whole numbers to 10,000.
Flight: Interdisciplinary Learning Activities (76-79)	CA	MA.3.SDAP.1.3	Summarize and display the results of probability experiments in a clear and organized way (e.g., use a bar graph or a line plot).
Dunked Napkin (17-22)	CA	MA.3.SDAP.1.4	Use the results of probability experiments to predict future events (e.g., use a line plot to predict the temperature forecast for the next day).
Wind in Your Socks) (29-35)	CA	MA.3.MG.1.1	Choose the appropriate tools and units (metric and U.S.) and estimate and measure the length, liquid volume, and weight/mass of given objects.
Wind in Your Socks) (29-35)	CA	MA.3.SDAP.1.3	Summarize and display the results of probability experiments in a clear and organized way (e.g., use a bar graph or a line plot).
Wind in Your Socks) (29-35)	CA	MA.3.MR.1.1	Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.
Wind in Your Socks) (29-35)	CA	MA.3.MR.2.3	Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.
Aeronautics Educator Guide			
1997 Mathematics			
Content Standards			
California Mathematics			
Grade 4			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	CA	MA.4.MR.2.3	Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.
Rotor Motor (69-75)	CA	MA.4.SDAP.1.1	Formulate survey questions; systematically collect and represent data on a number line; and coordinate graphs, tables, and charts.
Where is North? The Compass Can Tell Us (87-90)	CA	MA.4.SDAP.1.1	Formulate survey questions; systematically collect and represent data on a number line; and coordinate graphs, tables, and charts.

Let's Build a Table Top Airport (91-96)	CA	MA.4.MG.3.6	Visualize, describe, and make models of geometric solids (e.g., prisms, pyramids) in terms of the number and shape of faces, edges, and vertices; interpret two-dimensional representations of three-dimensional objects; and draw patterns (of faces) for a solid that, when cut and folded, will make a model of the solid.
Dunked Napkin (17-22)	CA	MA.4.SDAP.1.3	Interpret one- and two-variable data graphs to answer questions about a situation.
Wind in Your Socks) (29-35)	CA	MA.4.MR.1.1	Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.
Wind in Your Socks) (29-35)	CA	MA.4.MR.2.3	Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.